Permit #:20013

County: A1 ch 1504

CONFIDENTIAL UNTIL:

Date Issued: 2-//-82

Date Cancelled:

Date Plugged: 2.27-82

OGC FORMS	Date Received
1	
2	
3	2-2-6-8
31	
4	
41	
5	
6	
7	2-27-82
8	
12	
Misc. Form 2	

Ings
Logs
Chip
Core

water

Analyses
core

Additional Submitted Data:

COMMENTS:

MISSOURI OIL AND GAS COUNCIL

APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

	R Gulf Energy	and the Classical Control of the Con	DATEDATE
Bldg 2, Suite 360, 6825 Address			
Audiess	Cit		State
	DESCRIPTION OF	WELL AND LEASE	
Name of lease		Well number	Elevation (ground)
Alma Selk		23-12	959'
WELL LOCATION 1980 ft. from N	(give footage from $O(S)$ sec. line $O(S)$. line
WELL LOCATION Section 23	Township 66	Range41	County Atchison
Nearest distance from proposed location to property or lease line:	complet	e from proposed location ted or applied — for well o	to nearest drilling, on the same lease: None
Proposed depth: 4000 !	Rotary or Cable to	ools	Approx. date work will start
	Rotary		2/14/82
Number of acres in lease:		Number of wells on le completed in or drilling	ease, including this well None
760		Number of abando	oned wells on lease: None
	ameame		No. of Wells: producing0 inactive0
Status of Bond Single Well XX Amt. \$4,	,000 Blanket	Bond Amt.	abandoned
Single Well XX Amt. \$4,	n or plug back, briefly desc	ribe work to be done, givi	ON FILE ATTACHED
Remarks: (If this is an application to deeper producing zone and expected new	n or plug back, briefly desc	ribe work to be done, givi	ON FILE ATTACHED
Remarks: (If this is an application to deeper producing zone and expected new Proposed casing program: amt. size wt	n or plug back, briefly desc	ribe work to be done, givi	on FILE ATTACHED Ing present In a set of the set of t
Remarks: (If this is an application to deeper producing zone and expected new Proposed casing program: amt. size wt 250! 85/8!! 2 4000! 5½!! 1	on or plug back, briefly description or	Approved casing — To be amt. size	on FILE ATTACHED Ing present De filled in by State Geologist De wt./ft. cem. Chergy Corp. (company).
Single Well Amt. \$4. Remarks: (If this is an application to deeper producing zone and expected new Proposed casing program: amt. size wt 250! 8 5/8!! 2 4000! 5½!! 1	on or plug back, briefly description or	Approved casing — To be amt. size of the Gulf Eat this report was prepared of my knowledge.	on FILE ATTACHED Ing present De filled in by State Geologist De wt./ft. cem. Chergy Corp. (company).
Single Well Amt. \$4. Remarks: (If this is an application to deeper producing zone and expected new Proposed casing program: amt. size wt 250! 8 5/8!! 2 4000! 5½!! 1	on or plug back, briefly description or	Approved casing — To be amt. size of the Gulf Form this report was prepared of my knowledge.	on FILE ATTACHED Ing present See filled in by State Geologist See wt./ft. cem. Chergy Corp. (company), d under my supervision and direction and
Remarks: (If this is an application to deeper producing zone and expected new Proposed casing program: amt. size wt 250' 85/8" 2 4000' 5½" 1	Ift. cem. 24# 250 sx 150 sx Vice President to make this report; and that and complete to the best signal.	Approved casing — To be amt. size of the Gulf Form this report was prepared of my knowledge.	on FILE ATTACHED Ing present In efilled in by State Geologist In efilled in by State Geologist In energy Corp. (company), Industry under my supervision and direction and In the filled in by State Geologist In energy Corp. (company), In the filled in by State Geologist In energy Corp. (company), In energy Corp.

CRRTICATE I she undersigned state that I am	the Vice President of the Gulf Energy Corp. (0	ompany), and

and any lower end plugs to be set.

Evaporation

Method of disposal of mud pit contents:

Use reverse side for additional detail

File this form in duplicate with

CERTIFICATE: I, the undersigned, state that I am the Vice Fresiden T of the Cult Fresh (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Signature

. Kaltenlac

Extreme loss circulation at TD prevented any electric logs to be run

DETAIL OF FORMATIONS PENETRATED

Lansing K.C. Base Cherokee Mississippian	690' 1100' 1180'	 1180'	See Geolo	ogist Report		
Cherokee						
	1180'		1			
Mississippian	A SHAPE TO	1855'	or hands and			
	1855'	2069'				
Kinderhook	2069'	2320'	May In			
Devonian - Hunton	2320'	2501'.	entition 1			
Silurian - Hunton	2501'		- (0/0-			
TD	2625'	18230	- 318081			
		266 FL	- 10251			
			AND STATE OF THE S			
Carrie Cal		Nanc				
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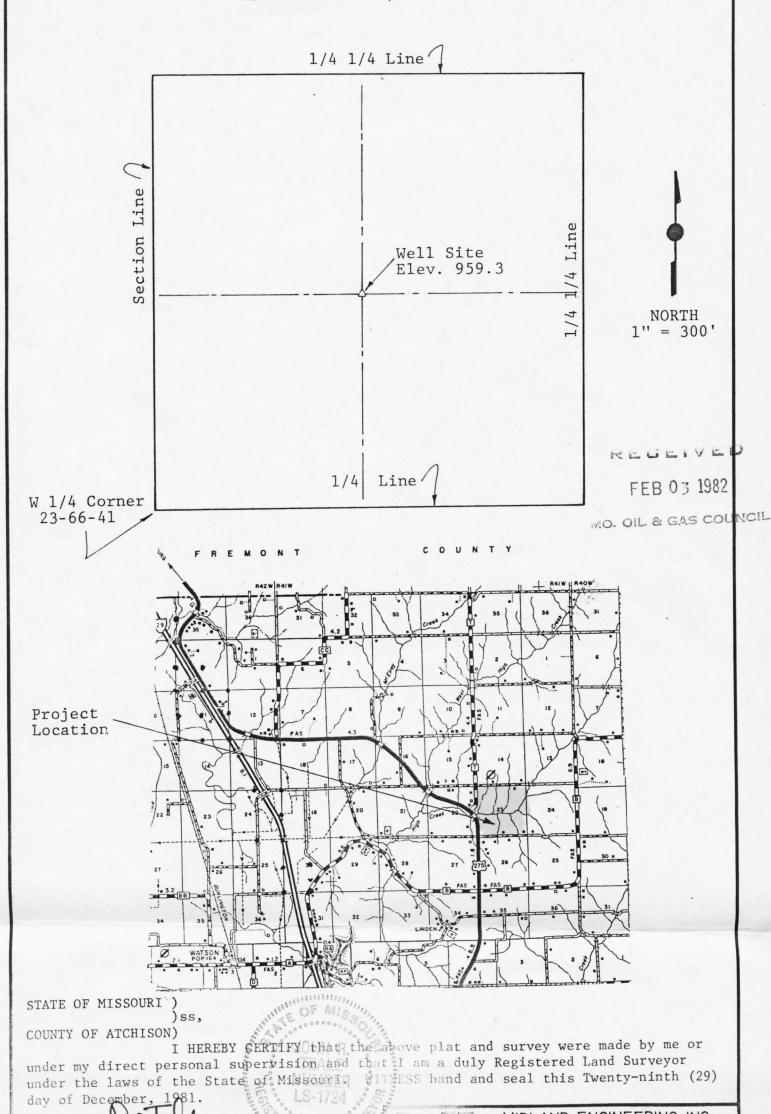
^{*}Show all important zones of porosity, detail of all cores, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

INSTRUCTIONS:

Attach drillers log or other acceptable log of well if available.

This Welt Completion or Recompletion report and well log shall be filed with the Missouri State Geologist not later than 30 days after project completion

SELK NO. 23-12 SW% NW% SEC. 23, T-66, R-41 ATCHISON COUNTY, MISSOURI



Registered Land Surveyor Missouri L.S. 1724

MIDLAND ENGINEERING, INC.

Civil Engineers • Surveyors
501 North Market
1119 Washington Maryville, MO 64468
Chillicothe, MO 64601

T. G. WRIGHT Consulting Geologist

530 FOURTH FINANCIAL CENTER
WICHITA, KANSAS 67202

KELLIVED

MAR 04 1982

MO. OIL & GAS COUNCIL

March 2, 1982

GEOLOGICAL WELL REPORT

Gulf Energy Corporation #23-12

Selk, C NW SW Section 23 - T66N
R. 41 W., Wildcat, Atchison County, Mo.

Contractor: Banner Drilling Company

Spud: 2-19-82 Rig #4

8 5/8" Surface Casing @ 250'

Completed as a dry hole: 2-27-82

Total Depth: 2625'

Ms. Kathleen Cox Gulf Energy Corporation Building 2, Suite 360 6825 E. Tennessee Ave. Denver, CO 80224

ELEVATION

Listed below are the pertinent geologic tops and an evaluation of the porosities encountered. No drill stem tests were taken, and the hole was not logged electrically before abandonment. Logging was attempted but failed, due to the bad hole conditions caused by lost circulation problems at total depth, 2625'. A gas detector unit was in operation during the drilling from approximately 300 - 2689'.

Enclosed herewith is a copy of the plotted drilling time log which includes lithology, porous zones, geologic tops and other pertinent data.

965 Derrick Floor

LANSING-KANSAS CITY	690 (+ 275)
BASE OF KANSAS CITY	1000 (- 35)
CHEROKEE SHALE	1180 (- 115)
1282-92	Sandstone, fine, clustered, white to light gray, in part with fair porosity, no show, no gas kick. Bottom 5 feet of sand coarser and cleaner, no show.
1505-26	Sandstone, loose to loosely cluster, medium grained to medium coarse. Good porosity, no show, no gas kick.
1624-28	Sandstone, white, clustered, medium grained, clean, porous, no show, no gas kick.

.

CHEROKEE SHALE (continued)

1758-66	Sandstone, white	, medium coarse, angular,	clustered,
	clean and porous	. No show, no gas kick.	

- 1784-96 Sandstone, loose grained, coarse to medium coarse, good porosity, no show, no gas kick.
- 1803-12 Sandstone, clean, coarse, rounded to subrounded, loose grains, good porosity, no show, no gas kick.
- 1832-37 Sandstone, clean, white, clustered, medium fine, porous, no show, no gas kick.

MISSISSIPPIAN LIMESTONE

1855 (- 890)

- Dolomite, buff to brown, sucrosic, good, fine cavernous porosity. No show, no gas kick.
- 1904-19 Dolomite, tan to gray, finely sucrosic, fine cavernous porosity, no show, no gas kick.
- 1954-60 Dolomite, light gray, granular to sucrosic, light gray chert included good porosity, no show, no gas kick.
- 1968-76 Sucrosic, very porous dolomite, very cherty, no show, no gas kick.

KINDERHOOK SHALE

2069 (-1102)

DEVONIAN-HUNTON

2320 (-1355)

- 2350-66 Dolomite buff to brown, medium crystalline, hard, streaks of good covernous porosity, evidence of fracturing, no show, no gas kick.
- 2403-08 Dolomite, light gray, medium crystalline to sucrosic, scattered vugular porosity, no show, no gas kick.
- 2415-20 As above some covernous porosity.
- 2431-37 Dolomite, brown, dense, some coarsely crystalline with good porosity, no show.
- 2443-52 Dolomite brown, dense to medium crystalline, scattered coarse vugular porosity, no show.
- 2476-82 As above evidence of druzy dolomite indicating fractures, no show.

GEOLOGICAL REPORT Selk #23-12 Atchison County, Mo.

SILURIAN-HUNTON

2501 (-1536)

2501-15

Dolomite, light tan, rhombic, very coarsely crystalline, excellent porosity, vein minerals cavernous, very pyritic. Judged to be coarse cavernous. No show, no gas kick.

NOTE:

Lost circulation at 2569, dry drilled to 2625, no samples. From drilling appears to be similar rocks to TD 2625. Attempts to restore circulation failed. Electric log failed to enter hole below 850'.

TOTAL DEPTH:

2625'.

Conclusion and Recommendations

The only relatively close correlation hole is a dry hole drilled to the Hunton in 1953, a little more than a mile West-Northwest of this hole. Due to the poor log available the correlations are not considered reliable but using the data available it would appear the Selk well is somewhat higher than the dry hole to the west. However, with the lack of "shows" within the section drilled, it was recommended that the well be abandoned as a dry hole, particularly with the severe loss of circulation encountered at total depth.

Yours very truly,

T. G. Wright

TGW:wlf

DRILLING PROGRESS

d		
	19-82	
9	-20	
4	-21	
0	-22	
0.	-23	
0	-24	
9	-25	
0	-26	
5 TD	-27	
-	-22 -23 -24 -25 -26	

BIT RECORD

HUGHES	J-2	249 -	994	
HUGHES	J-22	994	2625	T.D.